

WHAT IS CLAIMED IS:

1. A method for joining components of an ink jet printhead to negate a bow in a finished assembly,
5 the method comprising the steps of:
 providing at least two contiguous ink jet printhead components required to be joined; and
 providing a flexible lamination layer
between the at least two contiguous ink jet
10 components to join the at least two ink jet components.
2. A method as claimed in claim 1 wherein the at least two contiguous ink jet printhead components
15 comprises a plurality of series contiguous ink jet components.
4. A method as claimed in claim 3 wherein the thermoplastic stock comprises thermoplastic stock
20 having a thickness of approximately 0.0025".
5. A method as claimed in claim 3 wherein the thermoplastic stock facilitates re-positioning of precision ink jet components.
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6. A method as claimed in claim 3 wherein the thermoplastic stock comprises elastic thermoplastic stock for reducing lamination stress between components.
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7. A method as claimed in claim 1 wherein the flexible lamination layer comprises thermoplastic adhesive stock.
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8. A method as claimed in claim 7 wherein the flexible lamination layer comprises non-curing thermoplastic adhesive stock such that the lamination layer can be taken repeatably back through a softening temperature to facilitate component separation for reuse.

9. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a modified polyolefin.

10. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a non-curing thermoplastic adhesive stock that is resistant to high ph inks.

11. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a thermoplastic adhesive having a softening temperature between 90°C and 200°C.

12. A system for joining components of an ink jet printhead to negate a bow in a finished assembly, comprising:

at least two contiguous ink jet printhead components required to be joined; and
a flexible lamination layer between the at least two contiguous ink jet components to join the at least two ink jet components.

13. A system as claimed in claim 12 wherein the flexible lamination layer comprises thermoplastic stock.

14. A system as claimed in claim 13 wherein the thermoplastic stock comprises thermoplastic stock having a thickness of approximately 0.0025".

5 15. A system as claimed in claim 13 wherein the thermoplastic stock comprises elastic thermoplastic stock for reducing lamination stress between components.

10 16. A system as claimed in claim 13 wherein the thermoplastic stock can be taken back through its glass transition and made soft to facilitate component separation for reuse.

15 17. A system as claimed in claim 13 wherein the thermoplastic stock exhibits high viscosity during the lamination process, reducing material flow into areas that degrade printhead performance.

20 18. A system as claimed in claim 13 wherein the thermoplastic stock comprises a thermal barrier.

25 19. A system as claimed in claim 13 wherein the thermoplastic stock promotes improved charge plate condensation removal.

20. A system as claimed in claim 13 wherein the thermoplastic stock reduces component bow in the operating or printing condition.